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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/506,747

09/03/2004

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P15077-US1

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08/04/2009

EXAMINER

GAY, SONIA L

ART UNIT

PAPER NUMBER

2614

MAIL DATE

DELIVERY MODE

08/04/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/506,747	Applicant(s) YUZHANG, LIU	
	Examiner SONIA GAY	Art Unit 2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) 3,8,9,12 and 16 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-2,4-7,10,11-15,17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

This action is in response to Application no. 10/506747 submitted on 04/30/2009. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Response to Amendment

1. Applicant's amendment filed on April 30, 2009 has been entered. Claim 1 has been amended. Claims 3, 8-9, 12, and 16 have been canceled. No claims have been added. Claims 1 - 17 are still pending in this application, with claims 1 and 13 being independent.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 recites "a configuration of service switching points (SSP), service capability servers (SCS), and service provisioning equipment, the configuration used to provide services to users" and "responsive to request from a user for user interaction, requesting a call control service capability server (CCSCS)". It is unclear how the configuration recited in the preamble relates to the process recited in the body of the claim, i.e. what is the purpose of the SSP, which network element is performing the requesting step. The examiner interprets this

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claim to recite, --responsive to a request from a user for user interaction, an application server requesting a call control service capability server (CCSCS) to set up a connection--.

3. Claims 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 10 recites, "the application instructing the UISCs to close". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2, 4-7, 10-11, 13-15, and 17 are rejected under 35 U.S. C. 103(a) as being unpatentable over Beresin (US 6,788,667) in view of Wallenius et al. (US 2002/0176379), and further in view of Bunting et al.(US 2003/0095566).

For claim 1, Beresin discloses a method for service provisioning in a telecommunications system, comprising: responsive to a request from a user for a user interaction (column 3 lines 58 - column 15), requesting the mobile network to set up a connection between the user and the service provisioning equipment using a user interaction server (*WTA server*, column 4 lines 20 – 39); and, when the user interaction is complete, the mobile network terminating the connection towards the service provisioning equipment (column 4 lines 40 – 47).

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Yet, Beresin fails to explicitly teach wherein a mobile network comprises a configuration of service switching points and server capability servers wherein a call control server capability server (CCSCS) sets up the connection between the user and the service provisioning equipment and a user interaction service capability server instructs the CCSCS to terminate the connection towards the service provisioning equipment.

However, Wallenius et al. discloses a method wherein the mobile network comprises at least two SSP/MSC and a CAMEL service environment (CSE) connected to a Wireless application protocol (WAP) server wherein the WAP server can forward instructions from a user to the CSE for the purpose of performing a call control function (Abstract; [0059 - 0063] [0095]). Moreover, Bunting et al. discloses a method wherein a mobile network comprises a CSE as call control service capability server and a WAP gateway as a user interaction service capability server for the purpose of provisioning services in Universal Mobile Telecommunications Networks (UMTS), mobile network ([0003] [0004]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the teachings of Beresin with the teachings of Wallenius and Bunting et al. so that the mobile network disclosed above in Beresin comprises a configuration of SSP and service capability servers such as a CSE and a WAP server/gateway for the purpose of setting up the connection between the user and the service provisioning equipment and instructing the CCSCS to terminate the connection towards the service provisioning equipment.

For claim 13, Beresin discloses an arrangement for the provisioning of services via a telecommunications network, comprising: a mobile network (Fig.4A 480, column 2 lines 50 -

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56); an application server managing the user interaction server (*chat server*, Fig.1 120, column 2 lines 25 – 35, 65 – column 4 line 2); and a user interaction server (*WTA server*, Fig.3A, column 2 lines 50 – 56) being instructed to reserve a port on the service provisioning equipment to perform the user interaction sequence; inform the application of the port reservation, notify the mobile network of the service provisioning location, instruct the mobile network to connect the user to the service provisioning equipment, and terminate the connection to the port on the service provisioning equipment (4 lines 15 -46).

Yet, Beresin fails to teach explicitly teach a configuration of at least two service switching points and server capability servers wherein a call control server capability server (CCSCS) passes a request for a user interaction sequence to an application running on an application server and sets up the connection between the user and the service provisioning equipment via the at least two service switching points; and a user interaction service capability server instructing the CCSCS to terminate the connection towards the service provisioning equipment.

However, Wallenius et al. discloses a method wherein the mobile network comprises at least two SSP/MSC and a CAMEL service environment (CSE) connected to a Wireless application protocol (WAP) server wherein the WAP server can forward instructions from a user to CSE for the purpose of performing a call control function; and the CSE set up connections using at least two service switching points (*GMSC/VMSC*) (Abstract; [0059 - 0063] [0095]). Moreover, Bunting et al. discloses a method wherein a mobile network comprises a CSE as call control service capability and a WAP gateway as a user interaction server for the purpose of

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provisioning services in Universal Mobile Telecommunications Networks (UMTS), mobile network ([0003] [0004]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the teachings of Beresin with the teachings of Wallenius and Bunting et al. so that the mobile network disclosed above in Beresin comprises a configuration of at least two SSPs and service capability servers such as a CSE and a WAP server/gateway for the purpose of setting up the connection between the user and the service provisioning equipment, passing user request for user interactions, and instructing the CCSCS to terminate the connection towards the service provisioning equipment.

For claim 2, the teachings of Beresin and Wallenius further disclose wherein said interaction sequence comprises exchanging of instructions for establishing or disconnecting a communication link towards the service provisioning equipment (Beresin, column 4 lines 15 – 47) (Wallenius, [0063]).

For claim 4, Beresin further discloses wherein prior to the requesting step the UISCs instructing said service provisioning equipment to reserve at least one communication port for establishing said communication link (Beresin, column 4 lines column 4 lines 15 – 21).

For claim 5, the teachings of Beresin and Wallenius further disclose wherein following execution of the requesting step: the CCSCS instructing a Service Switching Point (SSP) to establish a connection to the service provisioning equipment, wherein the establishment of a communication link between the user and the telecommunications system is triggered by the CCSCS instructions; reporting incoming call to the UISCs by one of the service provisioning

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equipment involved in the established communication link; the UISCs instructing the service provisioning equipment to perform an interaction with the user; and the service provisioning equipment reporting the user interaction result to the UISCs (Beresin, column 4 lines 15 – 39) (Wallenius, [0063]).

For claims 6 and 17, Beresin further discloses wherein said establishing of a communication link is the establishing of a speech channel (Beresin, Abstract).

For claim 7, Beresin further discloses reporting the establishment of said communication link to one of the service capability servers involved in the provisioning of service (Beresin, column 4 lines 28 – 35).

For claims 10, Beresin further discloses upon receiving the results of the user interaction, the application instructing the UISCs to close the connection between the user and the provisioning equipment (Beresin, column 4 lines 40 – 46, column 5 lines 3 - 7).

For claims 11 and 15, the teachings of Beresin and Wallenius further disclose wherein said service provisioning equipment comprises: a resource server, such as a media server, and wherein said interaction between said service capability servers triggers the setup and disconnection of the link between the user and the resource server (Beresin, *chat server*, column 4 lines 15 – 39) (Wallenius, [0063]).

For claim 14, Bunting et al. further discloses wherein the telecommunication system is a universal mobile telecommunications system (UMTS) (Bunting et al., [0003 -0005]).

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Response to Arguments

5. Applicant's arguments with respect to the rejection(s) of claim(s) 1 -11 and 13 - 17 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SONIA GAY whose telephone number is (571)270-1951. The examiner can normally be reached on Monday to Thursday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (571) 272-7488. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rasha S AL-Aubaidi/
Primary Examiner, Art Unit 2614

/Sonia Gay/
Examiner, Art Unit 2614

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July 30, 2009